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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/043,322	01/14/2002	Riichiro Abe	9511-087-27	6656	
7590 01/26/2005			EXAMINER		
Supervisor, Patent Prosecution Services			YAEN, CHRISTOPHER H		
PIPER MARB	URY RUDNICK & WO	LFE LLP			
1200 Nineteenth Street, N.W.			ART UNIT	PAPER NUMBER	
Washington, DC 20036-2412			1642		

DATE MAILED: 01/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	ıN.	Applicant(s)				
Office Action Summary		10/043,322		ABE ET AL.				
		Examin r		Art Unit				
		Christopher	H Yaen	1642				
T Period for R	he MAILING DATE of this communicately	ation appears on the o	over sheet with the	correspondence ad	ddress			
A SHOR THE MAI - Extension after SIX i - If the peri - If NO peri - Failure to Any reply	TENED STATUTORY PERIOD FOILING DATE OF THIS COMMUNIC. so of time may be available under the provisions of 6) MONTHS from the mailing date of this community of for reply specified above is less than thirty (30) od for reply is specified above, the maximum stature reply within the set or extended period for reply will received by the Office later than three months afte tent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event ication. days, a reply within the statuto tory period will apply and will all, by statute, cause the application.	t, however, may a reply be til ory minimum of thirty (30) day expire SIX (6) MONTHS from ation to become ABANDONE	mely filed ys will be considered time in the mailing date of this of ED (35 U.S.C. § 133).				
Status					•			
1)⊠ Re	sponsive to communication(s) filed	on 15 November 200	04.					
		This action is no						
•—	, 							
Disposition	of Claims							
4a) 5)□ Cla 6)⊠ Cla 7)⊠ Cla	tim(s) <u>1-12,14-16 and 18-23</u> is/are proof the above claim(s) <u>1-11 and 20</u> sim(s) is/are allowed. sim(s) <u>12,14-16,18,19 and 21-23</u> is/aim(s) is/are objected to. sim(s) are subject to restriction	is/are withdrawn fron	n consideration.					
Application	Papers							
9)[] The	specification is objected to by the I	Examiner.						
10)∐ The	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
II)INE	oath or declaration is objected to b	y the Examiner. Note	the attached Office	e Action or form P	10-152.			
Priority und	er 35 U.S.C. § 119		,					
a)	Certified copies of the priority do	ocuments have been ocuments have been the priority documen al Bureau (PCT Rule	received. received in Applicat ts have been receive 17.2(a)).	ion No ed in this National	Stage			
Attachment(s)								
	References Cited (PTO-892)	4) Interview Summary					
3) 🔲 Informatio	Draftsperson's Patent Drawing Review (PTC on Disclosure Statement(s) (PTO-1449 or PT (s)/Mail Date	O/SB/08) 5	Paper No(s)/Mail Do Notice of Informal F Do Other:		O-152)			

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DETAILED ACTION

Re: Abe K. et al

Priority Date: 12 January 2001

1. The amendment filed 11/15/2005 is acknowledged and entered into the record.

Accordingly, claims 13 and 17 are canceled without prejudice or disclaimer, and claims

21-23 are newly added.

2. Claims 1-12, 14-16, and 18-23 are pending, claims 1-11, and 20 are withdrawn

as being drawn to a non-elected invention.

3. Claims 12,14-16,18-19, and 21-23 are examined on the merits.

4. The text of those sections of Title 35, U.S. Code not included in this action can

be found in a prior Office action.

Claim Objections

5. Claim 16 is objected to because of the following informalities: claim 16 is

dependent on claim 13 which is now canceled.

Appropriate correction is required.

Claim Rejections Maintained - 35 USC § 112, 1st paragraph

6. The rejection of claims 12,14-16, 18-19 and now newly added claims 21-23 as

lacking written description under 35 USC § 112, 1st paragraph is maintained for the

reasons of record. Applicant argues that the specification provides sufficient disclosure

of the terms "cells" and "tumor antigen". In additional, applicant argues that the terms

are widely used and well recognized in the art, such that one of skill in the art would be

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able to recognize what the meaning of the term would encompass. Applicant's arguments have been carefully considered but are not deemed persuasive to overcome the rejection of record. The claims are drawn to a cellular composition comprising isolated generically any cell, an anti-MIF antibody, and any tumor antigen. The issue in this case is not whether one of skill in the art would recognize the terms as claimed, but rather whether one of skill in the art would recognize that the applicant was in full possession of the invention as claimed. In this case the applicant claims a genus of cells and tumor antigens. The written description requirement for a claimed genus may be satisfied through sufficient description of a representative number of species by actual reduction to practice, reduction to drawings, or by disclosure of relevant, identifying characteristics, i.e., structure or other physical and/or chemical properties, by functional characteristics coupled with a known or disclosed correlation between function and structure, or by a combination of such identifying characteristics, sufficient to show the applicant was in possession of the claimed genus. See Eli Lilly,119 F.3d at 1568, 43 USPQ2d at 1406.

In the instant case, applicant has not taught sufficient representative species of either cells or tumor antigens as claimed, nor has the applicant taught any identifying characteristics that would help one of skill in the art distinguish their product from others in the art. The specification has only specifically taught or disclosed to those of skill in the art a cellular composition comprising CD8⁺ T-cells, an anti-MIF antibody, and a tumor antigen that is derived from a thymoma. A "representative number of species" means that the species which are adequately described are representative of the entire

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genus. Thus, when there is substantial variation within the genus, one must describe a sufficient variety of species to reflect the variation within the genus. The disclosure of a single species of a cell or a tumor antigen is not extensive enough or is not representative of the broad genus of any cell and any tumor antigen claimed, because there are many types of cells and tumor antigens that differ structurally and functionally. Therefore, one of skill in the art would not be able to recognize that the applicant was in possession of the broad genus of cells and tumor antigens claimed at the time of filing. Therefore, the rejection of claims under 35 USC 112, 1st paragraph is maintained for the reasons of record.

This rejection now also applies to newly added claims 21-23 for essentially the same reasons. Newly added claims 21-23 are drawn to a cellular composition comprising generically any immune cells and any cancer cell incubated with an anti-MIF antibody. The specification has only provided sufficient written description for CD8⁺ T-cells and tumor cells of thymoma origin and thus this disclosure is insufficient to represent the broad class of any immune cell and any tumor cell claimed because of the widely varying structures represented by each.

All other rejections are withdrawn in view of the applicant's amendments and arguments thereto as set forth in a paper filed 11/15/2004.

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Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher H Yaen whose telephone number is 571-272-0838. The examiner can normally be reached on Monday-Friday 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Siew can be reached on 571-272-0787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher Yaen Art Unit 1642 January 18, 2005

GARY NICKOL
PRIMARY EXAMINER